

FRESHMAN EDITION

TOIKE



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TOIKE OIKE, TOIKE OIKE, OLLUM TE CHOLLUM TE CHAY,
SCHOOL OF SCIENCE, SCHOOL OF SCIENCE, HURRAY, HURRAY, HURRAY.

Vol. XXXVII

Tuesday, September 25, 1945

No. 1

BEGINNING THE FIRST PEACE YEAR

THE DEAN . . .

This autumn, the Faculty of Applied Science and Engineering enrolls in regular session its first freshman class consisting entirely of ex-service men. The 404 freshmen registering in September, 1945, were in part civilians direct from the secondary schools. This time, however, the overwhelming numbers applying for admission made it necessary to select 400 of those having the longest service with the armed forces and to ask the remaining applicants, service and civilian, to await the opening of the special session beginning at the Ajax Division in January, 1946.

The situation that will exist on the campus during the session now opening will be unique. It will offer a challenge both to staff and to students. On the part of the former there will be every possible effort made to elicit amongst men who deserve well of their country and of the University an interest in academic studies and in the profession of which they aspire to become members. It is hoped that entering students, on their part, will do their utmost to merge themselves as rapidly and thoroughly as possible into the general University life. Only by so doing will they be able to derive that full benefit of which they have dreamed in more strenuous days.

Those who through scientific training now seek to prepare themselves for peacetime careers will be encouraged by a recent observation of Dr. Harvey N. Davis, President of the Stevens Institute of Technology, one of the greatest of American engineering schools. Said he:

"No type of higher education is more vital, or more desired today than is basic engineering education, nor is any type better fitted to make appropriately selected students into able industrial leaders, into wise, responsible citizens, and even into men of broad culture, well fitted to understand, appreciate and contribute to the best of the thinking that is currently going on in a wide diversity of fields against a background of an intensely scientific age".

C. R. YOUNG,
Dean.



DEAN C. R. YOUNG

ENGINEERING SOCIETY EXECUTIVE. 1945-46

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TO THE CLASS OF 4T9

It is a signal honour and a privilege to welcome you, the men of the Class of 4T9 to "School". We are indeed pleased that you have made this Faculty your choice.

Once you have enrolled in the Faculty of Applied Science and Engineering in the University of Toronto, you are automatically a member of the Engineering Society of the University of Toronto. You have a membership in the largest undergraduate Engineering Society in the British Empire—and one which is to celebrate its sixtieth anniversary this fall. Your membership entitles you to all the Society's varied privileges and warrants your support in turn. Therefore take advantage of every opportunity which your Society offers you so that you in due course may perpetuate the great name which former men have won for School.

The Freshman Reception Programme this year has been slightly curtailed in that the physical initiation has been cancelled. You are, however, asked to wear the green tie and observe the "RULES FOR FRESHMEN" as outlined in this copy of our official organ.

The Programme will terminate with the Freshman Reception Dance, the date of which will be announced shortly, and which we invite you all to attend.

As in the past, we have appointed Student Councillors from the fourth year who will be glad to consult with you on any matter regarding your studies and various phases of your School activities.

Might I suggest that you work diligently so that you may overcome any handicap which the absence from things academic may have placed upon you. The opportunity is vast, and none should let it slip. If I can be of some service to you, I shall be very glad to make your acquaintance in the Engineering Society office. Meanwhile, may the best of good luck be yours.

MURRAY McCULLOCH,
President, Engineering Society.

THE TOIKE OIKE

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EDITORIAL

THE ATOMIC AGE?

In a fantastic cataclysm the atomic age was ushered in August 5, 1945, when the first atomic bomb was dropped on Hiroshima with the resultant destruction of a large part of that city and the terrible death of upwards of 100,000 human beings, though some maintain they were "only Japanese". The immediate effects of this use of atomic power were considerable. It hastened the surrender of Japan and was thus instrumental in ending the greatest armed conflict recorded in man's history.

Atomic energy, however, promises to open new Horizons to man. It is, perhaps, only a matter of time until atomic power will become available to drive the wheels and electron tubes of industry and thus end all our apprehensions about the exhaustion of fuel supplies. With its aid men should also, some day, be enabled to leave our earth and reach other planets, those of our sun and even those of the stars above.

However, these are just possibilities and it is perhaps significant that only a destructive application has so far been realized. It is that which we propose to consider here. Let us recapitulate the facts: Within a few years every major nation may be able to produce atomic bombs that could be launched from rockets having a range of thousands of miles, bombs every one of which (even without admitting further "progress") could completely wipe out a city of, say, the size of Hamilton.

What are the conclusions that have been drawn from this fact? Well, an authority from Chicago suggests a complete decentralization of our population into communities not larger than 10,000 or 20,000 inhabitants. A voice from Australia demands that the administration of the British Empire be shifted to the Dominions, and particularly to the vast spaces of Canada, presumably because of the possibility that London, together with most other British cities, could be wiped out almost without warning.

In a way such proposals show an appalling state of mind, one whose basis is the certainty of another bigger and better war. On the other hand, is not such a development more than likely, judging from some thousand years of history? Would not warring nations a few milleniums, or even a few centuries ago, have hesitated if given our means of destruction, such as our bomber fleets capable of erasing whole cities from the map at one blow, or our battleships, one of which could easily send an armada to the bottom. Would they not have considered such wars as could be fought with these as something too terrible to inflict upon humanity, something to be avoided at all cost? Even at the expense of national sovereignty! Yet, we, today, have not only employed all these means to the very utmost of our ability but are facing incomparably greater destruction almost—calmly.

The question is, will there be another war twenty or fifty years hence? A categorical denial of this possibility can perhaps only be given for a society such as is outlined in Aldous Huxley's "*Brave New World*",* a society of uniform, mass-produced "humans" that do not think. However, the likelihood of survival of such a society is, to say the least, doubtful. In a way it might be said that humanity's greatness lies in human diversity. Unfortunately, although perhaps unavoidably, that same diversity is also a, if not the source of conflicts.

Differences which, absolutely speaking, are really slight, lead to a lack of understanding, not only between individuals, but between whole nations. They create different points of view which in their turn, lead people to think of other human beings not as essentially equals, but as such almost inhuman abstractions as are conjured up by such terms as Japs or Nips, Niggers, Frenchies, Jews, or as Bolsheviks, Racketeers, Capitalists and the like. Once a hostile attitude towards such a, basically nonexistent, abstraction has been created, it becomes easy to incite a people to war against, and to the extermination of, say the Jews or Japs. To show that this cannot happen in Europe or Asia only, let us relate an incident witnessed here in Canada, only a few weeks ago.

The place: a theater, showing the latest news of the world. The headline: "The most sensational shot of the war." On the screen appears a Japanese soldier, hit by a flamethrower; he staggers towards the camera, burning

*"*Brave New World*" should be compulsory reading for all engineers, and we may add that they won't need much compulsion after they get started.

(Continued on page 4)



The Sampuc Tac

. . . He seems to have strayed into a pile of copy and we'll consider him as temporarily "missing in action".

\$*@c!,
—Ed.

TRADITIONAL FRESHMAN RULES

The following rules have been drawn up and approved and will be observed by all Freshmen during the time stated.

The first group of rules will be enforced during the whole school year.

1. The first year will supply all fatigue parties required by the Engineering Society Executive. These parties will be detailed by the first year executive.
2. The first year will provide one man daily to report to the President of the Engineering Society for whatever services may be required. Members of the first year executive and Engineering Society Committees are exempt.
3. Freshmen shall NOT use the east door of the Engineering Building.

The following rules must be observed up to the time of the Freshmen reception dance.

1. All Freshmen will wear a green tie of the style approved and supplied by the Supply Department of the Engineering Society. After the initiation a green button will be presented which will be worn for the remainder of the year.
2. All Freshmen will enter the School buildings by the basement doors only.
3. Freshmen will remove their hats on entering all School buildings.

(There will be no hazing.)

INTRODUCING THE ENGINEERING SOCIETY

Here we are at the beginning of a new term and you, as Freshmen know very little of the Faculty you have joined. These few words are to help you understand and know your administrative body here—how it is made up and what it can do, and does, for you. I am speaking of the Engineering Society.

This 1945-46 term should be a big one—the sixtieth anniversary of your Engineering Society—and you, as Freshmen, can help make it so by pitching in and giving the Society your unlimited support.

First, a little history of the Society. It was begun in 1885 by Dr. T. Kenward Thomson—strictly a student society, run by, and for, the students of the School of Practical Science (now the Faculty of Applied Science and Engineering). At first, the "head" of "School", Principal Galbraith, acted as president, but in 1888, H. E. T. Haultain, (now Professor Haultain) became the first student president. The first Transactions and Year Book was printed in 1887 and has been standard equipment since that date as has the School Dinner, which was initiated in 1890.

Each course has its own club—Civil, Mining and Metallurgical, Mechanical, Engineering Physics, Architectural, Industrial Chemical, Electrical and Aeronautical and these, along with the Debates Club, form an integral part of our organization. The President, first and second Vice-Presidents, Secretary, Treasurer, presidents of each year and the aforementioned clubs, form the Executive Committee of the Society. The Presidents of each year mentioned above have a Vice-President, Secretary-Treasurer and an Athletic Representative, all elected—who look after the business of their class and further facilitate the business of the Society as a whole. There is also a year representative from each club who acts as a connecting link between his class and the club he represents.

Now, leaving the history and make-up of the Society, we will tell you something of its activities. First and foremost are the regular open meetings at which prominent speakers talk on engineering and allied subjects. These meetings are held monthly either in Convocation Hall or one of the large lecture rooms and the Faculty has seen fit to allow time from labs and lectures in order that these meetings be well attended. These meetings are of undeniable value, inasmuch as they are a discussion of practical application of the

theories which we study. The executive of the Society work hard in obtaining speakers and arranging these meetings and in view of this and the fact that they do not interfere with school work all students are urged to attend.

Also, for the furtherance of engineering knowledge, the Transactions and Year Book is printed. This contains a number of papers on engineering subjects and also gives the student a report on the activities of the Society and School in general during the preceding year.

An important characteristic of the Engineering Society is its part as connecting link between the engineering students and staff and also between us and other faculties on the campus. When a question regarding student policies arises, the Society represents the students' viewpoints to the Faculty. In order to see that School takes part in all the University functions, the Society sends two representatives to the Students' Administrative Council which looks after the activities of the University as a whole.

Elsewhere in this issue you will find an article on the Supply Department which is run by the Society for your convenience and so we will not give details here. But, remember, the Supply Department is strictly non-profit and is operated so that Schoolmen may obtain their draughting and stationery supplies quickly and cheaply, and your patronage will keep it going.

In the way of Social activities, the Society plans the Freshman Reception Dance, School Dinner, School Nite and School At-Home, and also School Open House. These names mean nothing to you now but details will be forthcoming as the dates for each one rolls around. Year dances and club meetings and socials are arranged by the executives of the years and the clubs. The former are financed by the money from the sales of year cards to the different years—so don't forget to purchase your year cards right away so that you won't be left out when the dances roll around.

Last but not least, comes the Athletic Association. School has always been on top in University sports and it is up to you to carry on the tradition. This year, with Intercollegiate Competition resumed, should be a big year, so let's see lots of Schoolmen on those inter-collegiate teams. For interfaculty competition, there is the T. A. Reed Trophy which has been away from "School" now for a couple of years and is getting lonely away from its old hideout. This year, with your support, the Athletic Association is out to get it back. So, if you want free P.T. credits, and a team sweater and you want to see all

(Continued on page 4)

THE ATHLETIC ASS'N. WELCOMES 4T9

As president of the Athletic Association it is my privilege and pleasant duty to welcome the new freshman year to the hallowed halls of learning in our "little old red schoolhouse" at S.P.S.

Many of you have been out of school for some time and as a result will have a more difficult task than others. One thing to remember—"All work and no play makes Jack a dull boy."—No truer words than these were ever spoken, and on this campus we have a unique inter-faculty athletic set-up to help you in your play—admittedly the best on the continent. There is room for every man to participate in any sport he wishes—if not as a player, then as a manager.

With the Athletic Office in Hart House as its centre, the intramural or interfaculty sports programme is based on a point system. Each faculty on the campus enters as many teams as possible in any sport—subject to the approval of the Intramural Sport Committee. Every faculty is represented on this committee, which is comprised entirely of students under "Mac" McCutcheon's guiding hand and they govern campus athletics. Points are awarded, in each sport, in proportion to registration, for percentage of student participation, games won, group winners, semi-finalists, finalists and champions. When all sports for the session are over, points are totalled up and to the winner goes the T. A. Reed Trophy, emblematic of sports superiority on the campus.

This is a vague outline of our inter-faculty athletic set-up at University of Toronto. This year with the return of Intercollegiate competition a number of you will be trying for places on the "Big Blue" teams—good luck to you!! For those who aren't fortunate enough to make the grade this year, remember—interfactulty teams are the breeding ground for intercollegiate competition—truly a form system!

In closing let me say that if any among you would like further information on athletics or anything at all about campus life, Keith Hendrick and the rest of the executive or myself will be around in the office in the store and willingly at your disposal.

Good luck academically and athletically and keep your eye on the athletic notice board. Until that first practice is called—

A. N. "Gus" CAMPBELL,
President, Athletic Association.

Some girls are like paint: Get them stirred up and you'll never get them off your hands.

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INTRODUCING

(Continued from page 3)

the championship trophies in School, support your Athletic Association by getting out for any sport you feel inclined to participate in.

This article has given you a very general description of your Engineering Society, but don't stop here. Get to know it intimately as quickly as possible because, after all, it is *yours*; its problems are *your* problems; its business is *your* business; and it needs *your* support to carry on!

F. BELSHAW,
1st Vic-President.

Father (to prospective son-in-law)—
"The boy who gets my daughter will certainly get a prize."

Prospect—"Could I see it please?"

EDITORIAL

(Continued from page 2)

from head to toe, a living torch. Behind us some young fellows and a girl (about the same age as the Hitler Youth or the S.S. troopers) start cheering and laughing and clapping.—There was no sound of disapproval. Shall we conclude that there is something in us that makes us look at war not just as a grim necessity, but also as a rather exhilarating experience?

* * *

What is needed is, perhaps, a consciousness of an all-embracing humanity; a consciousness that will have to be gained by a concerted and lasting educational effort of people everywhere; one that will make it impossible to have millions of men be trained to kill, and eventually be marched off to apply that training on similar millions of uniformed "enemies", call them Japs or White Imperialists. Of course one might point out that religion would be needed in such a task of re-education—but then, can one afford to be considered old-fashioned?

However, enough of idle speculation. There is the atomic bomb. There are a 100,000 dead at Hiroshima. There is a United Nations Charter and there are Treaties.—And there is the atomic-powered future and we are its engineers. And if it should so happen, we shall probably see to it that after the next war there will not be enough left to worry about.

Pessimistic?—maybe; but are YOU doing anything to prevent it?

DRAFTING SUPPLIES

The following list of supplies may be purchased at the Engineering Society Supply Department:

1 Tee Square 30"	\$2.40
1 Tee Square 10"	.85
1 Set Square 14" 60°	1.00
1 Set Square 10" 45°	.60
1 Dozen Thumb Tacks	.05
1 Fractional Scale	.45
1 Decimal Scale	.45
1 Pencil Pointer	.10
1-H, 2H, 3H Pencil	.25
1 Pencil Rubber	.15
1 Ink Rubber	.10
3 Bottles Ink (Black, Red, Blue)	.90
4 Sheets Drawing Paper	.40
1 Portfolio	1.00
1 Dusting Brush	.50
1 Penholder	.05
6 Pen Nibs	.10
1 Erasing Shield	.25
2 Sketch Problem Covers	.05
1 Sketch Problem Pad	.15

TOTAL \$9.80

Drawing Instruments \$12.50

NOTICE

Toike Oike Magazine goes to press again this year offering further prizes for the best literary efforts in school.

Start writing now!

"My girl has a beautiful gown she wears only to teas."

"Who?"

"Me."

* * *

The Joneses were at the breakfast table. Said Mrs. Jones to her spouse (well hidden behind the latest edition of the *Mop and Pail*)—"Those newlyweds across the street seem very devoted to each other."

A grunt was the reply.

"Everytime he goes out, he kisses her and keeps on throwing kisses back as he goes down the street. Why don't you do that Ethelbert?"

"Me?" snorted he "I don't know her!"

THE ENGINEERING SOCIETY SUPPLY DEPARTMENT

Another year has rolled around and the Supply Store, run by the Engineering Society, of which you are now a member, once again sticks out its welcome mat. Come in and see how efficiently we can prescribe to your needs.

Why travel around the town trying to complete your long list of supplies when it can be done right on the first floor of the Engineering Building. You will find two obliging clerks, Miss Giffen and Miss Gilverson ready to help you make your purchases.

Should your purchased article prove defective please return same to the store and we will try to adjust the matter to your complete satisfaction.

The supplies being bought in such large quantities allows us to offer you the most reasonable price that you can get for the same quality anywhere in the city.

The Store is also being used as an Information Booth, so if there are any questions bothering you do not hesitate to ask our assistance.

The profits made by the store are eventually reflected back to you in the form of dances, sports, publications, etc. By helping us you help yourself.

C. W. DANIEL,
2nd Vice-President.

His face flushed . . . but being a good Engineer it flushed silently.

* * *

Sometimes a man starts on a shoestring and then gets slapped for going higher.

* * *

Voice from passing car—"Engine trouble, mister?"

Voice from parker car—"Nope."

Voice from passing car—"Tire down?"

Voice from parker car—"Nope didn't have to."

WATCH FOR THE FRESHMAN RECEPTION ISSUE

Coming . . .

THE FRESHMAN RECEPTION DANCE!
START SMASHING YOUR PIGGY BANK